Let $f(x) = \dfrac{2x^2 - 4x + 5}{2x^2 - x}$.

Exercise **1** *How many vertical asymptotes does f have?* $\boxed{2}$.

Exercise **1.1** *They are at: (List them in order from left to right)*

$$x = \boxed{0} \quad and \quad x = \boxed{\dfrac{1}{2}}$$

Exercise **2** *What is the end behavior of f?*

$$As \ x \to \infty, \quad f(x) \to \boxed{1}$$
$$As \ x \to -\infty, \quad f(x) \to \boxed{1}$$

Exercise **2.1** *Which of the following reasons justifies this? (Select all that apply)*

Select All Correct Answers:

(a) *The degree of the numerator is less than the degree of the denominator.*

(b) *The degree of the numerator equals the degree of the denominator.* ✓

(c) *The degree of the numerator is greater than the degree of the denominator.*

(d) *It is the ratio of the leading coefficients.* ✓

Exercise **3** *How many horizontal asymptotes does f have?* $\boxed{1}$.

Exercise **3.1** *It is at: $y = \boxed{1}$.*

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